

Refine Search

Search Results -

Terms	Documents
L12 and L13	0

Database:

- US Pre-Grant Publication Full-Text Database
- US Patents Full-Text Database
- US OCR Full-Text Database
- EPO Abstracts Database
- JPO Abstracts Database
- Derwent World Patents Index
- IBM Technical Disclosure Bulletins

Search:

Recall Text
Clear
Interrupt

Search History

DATE: Wednesday, September 07, 2005 [Printable Copy](#) [Create Case](#)

<u>Set</u> <u>Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set</u> <u>Name</u>
side by side			result set
<i>DB=TDBD; PLUR=YES; OP=OR</i>			
<u>L14</u>	l12 and l13	0	<u>L14</u>
<u>L13</u>	underground or (under adj ground) or buried or subterranean or geologic\$2	590	<u>L13</u>
<u>L12</u>	radar\$1	72	<u>L12</u>
<i>DB=USOC; PLUR=YES; OP=OR</i>			
<u>L11</u>	l10 and identif\$8	8	<u>L11</u>
<u>L10</u>	l9 and imág\$3	15	<u>L10</u>
<u>L9</u>	l7 and l8	101	<u>L9</u>
<u>L8</u>	underground or (under adj ground) or buried or subterranean or geologic\$2	18331	<u>L8</u>
<u>L7</u>	radar\$1	10694	<u>L7</u>
<i>DB=PGPB,USPT,EPAB,JPAB,DWPI; PLUR=YES; OP=OR</i>			
<u>L6</u>	l5 and identif\$8	62	<u>L6</u>

<u>L5</u>	l4 and imag\$3	168	<u>L5</u>
<u>L4</u>	l1 and l3	628	<u>L4</u>
<u>L3</u>	underground.ti,ab. or (under adj ground).ti,ab. or buried.ti,ab. or subterranean.ti,ab. or geologic\$2.ti,ab.	162025	<u>L3</u>
<i>DB=PGPB; PLUR=YES; OP=OR</i>			
<u>L2</u>	underground.ti,ab. or (under adj ground).ti,ab. or buried.ti,ab. or subterranean.ti,ab. or geologic\$2.ti,ab.	3716	<u>L2</u>
<i>DB=PGPB,USPT,EPAB,JPAB,DWPI; PLUR=YES; OP=OR</i>			
<u>L1</u>	radar\$1.ti,ab.	45325	<u>L1</u>

END OF SEARCH HISTORY

Day : Wednesday

Date: 9/7/2005

Time: 09:52:27

PALM INTRANET**Inventor Name Search Result**

Your Search was:

Last Name = WITTEN

First Name = ALAN

Application#	Patent#	Status	Date Filed	Title	Inventor Name
<u>10118991</u>	<u>6700526</u>	150	04/10/2002	METHOD AND APPARATUS FOR IDENTIFYING BURIED OBJECTS USING GROUND PENETRATING RADAR	WITTEN, ALAN
<u>10769965</u>	Not Issued	77	02/02/2004	Method and apparatus for identifying buried objects using ground penetrating radar	WITTEN, ALAN
<u>10790301</u>	Not Issued	41	03/01/2004	Method for reconstructing complex wave attributes from limited view measurements	WITTEN, ALAN
<u>60490458</u>	Not Issued	159	07/28/2003	Reconstructing wave speed and attenuation from limited view measurements	WITTEN, ALAN
<u>09658188</u>	Not Issued	160	09/08/2000	Ground penetrating radar array and timing circuit	WITTEN, ALAN J.
<u>09866575</u>	Not Issued	168	05/29/2001	Ground penetrating radar array and timing circuit	WITTEN, ALAN J.
<u>10079807</u>	Not Issued	161	02/22/2002	Ground penetrating radar array and timing circuit	WITTEN, ALAN J.
<u>60284921</u>	Not Issued	159	04/20/2001	Method and apparatus for identifying buried objects using ground penetrating radar	WITTEN, ALAN J.
<u>07406396</u>	Not Issued	161	09/12/1989	GEOPHYSICAL IMAGING METHOD UTILIZING BACKPROPAGATION AND ZEROTH-ORDER PHASE APPROXIMATION	WITTEN, ALAN J.
<u>60127433</u>	Not Issued	159	04/01/1999	IMAGING DIELECTRIC AND CONDUCTIVITY FROM GROUND PENETRATING RADAR MEASUREMENTS	WITTEN, ALAN J.
<u>60152607</u>	Not Issued	159	09/08/1999	GROUND PENETRATING RADAR ARRAY AND TIMING	WITTEN, ALAN J.

CIRCUIT

Inventor Search Completed: No Records to Display.

Search Another: Inventor

Last Name

First Name

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FORWARD/BACKWARD SEARCH. 9/7/05, 10/769,965

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	2	("5644314").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/07 08:45
L2	24	("4706031" "4937580" "5280284" "5325095" "5327139" "5446461" "5486833" "5499029" "5557277" "5592170").PN. OR ("5644314"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/09/07 08:57
L3	2	("5592170").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/07 09:04
L4	31	("4381544" "4430653" "4691204" "4698634" "4967199" "5057846" "5248975" "5357253" "5361072").PN. OR ("5592170").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/09/07 09:13
L5	2	("5130711").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/07 09:13
L6	17	("3967282" "4062010" "4706031" "4721961" "4746867").PN. OR ("5130711"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/09/07 09:20

INTERFERENCE SEARCH.

10/769,965,

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	379	((342/22) or (342/27) or (342/59) or (342/175) or (342/176) or (342/179) or (342/189) or (342/195) or (342/196)).CCLS.	US-PGPUB	OR	OFF	2005/09/07 10:53
L2	32209	underground or (under adj ground) or buried or subterranean or geologic\$2	US-PGPUB	OR	OFF	2005/09/07 10:54
L3	52	I1 and I2	US-PGPUB	OR	OFF	2005/09/07 11:03

Gregory, Bernarr

From: PLUS
Sent: Wednesday, September 07, 2005 12:39 PM
To: Gregory, Bernarr
Subject: PLUS Results for 10769965

Here are the PLUS search results for 10769965.

This search was prepared by the staff of the Scientific and Technical Information Center, SIRA. If you have questions or comments about this search, please reply via email to PLUS@uspto.gov.



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10769965_LIST.
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10769965_WES
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10769965_EAST
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10769965.east



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10769965_LIST.txt

10769965

PLUS Search Results for S/N 10769965, Searched September 07, 2005

The Patent Linguistics Utility System (PLUS) is a USPTO automated search system for U.S. Patents from 1971 to the present. PLUS is a query-by-example search system which produces a list of patents that are most closely related linguistically to the application searched. This search was prepared by the staff of the Scientific and Technical Information Center, SIRA.

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6185125
4806850
5508541
5736760
6055195
4287540
4782220
4816655
5216266
5223994) .pn.

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Most Frequently Occurring Classifications of Patents Returned
From A Search of 10769965 on September 07, 2005

Original Classifications

30	342/22
10	712/217
7	712/23
6	435/69.1
4	175/26
4	514/255.05
4	712/215
4	712/218
3	73/574
3	324/326
3	530/350
3	712/225
3	712/41
2	73/633
2	175/61
2	250/369
2	257/223
2	257/301
2	257/347
2	324/329
2	324/336
2	340/10.2
2	361/56
2	365/149
2	367/99
2	376/159
2	435/7.24
2	514/19
2	514/230.5
2	536/23.5
2	707/104.1
2	711/125
2	711/151
2	711/208
2	712/207
2	712/216
2	712/244
2	712/35
2	712/36

Cross-Reference Classifications

11	342/195
10	435/325
9	342/175
9	342/27
9	435/320.1
8	712/215
7	324/337
7	435/252.3
6	342/176
6	435/69.1
6	712/23
5	342/179
5	342/196
5	342/22
5	367/87
5	536/23.5
5	712/217

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5 712/218
4 175/45
4 324/326
4 340/853.4
4 342/118
4 342/459
4 360/77.07
4 361/111
4 435/7.1
4 514/326
4 530/387.9
4 536/23.1
4 711/207
4 712/214
4 712/228
3 73/661
3 175/40
3 180/168
3 257/E27.112
3 324/338
3 340/853.1
3 340/853.5
3 340/853.6
3 342/190
3 342/191
3 342/21
3 435/471
3 435/71.1
3 435/71.2
3 530/350
3 544/405
3 703/26
3 707/3
3 712/205
3 712/206
3 712/208
3 712/209
3 712/213
3 712/233
3 712/240
3 712/244
3 712/26
2 37/348
2 152/525
2 175/24
2 250/362
2 250/392
2 257/229
2 257/230
2 257/269
2 257/304
2 257/332
2 257/339
2 257/376
2 257/E21.537
2 257/E27.06
2 257/E27.077
2 257/E27.084
2 257/E27.092
2 324/220
2 324/226
2 324/239
2 324/240

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2 324/329
2 324/333
2 324/334
2 324/345
2 324/693
2 324/713
2 324/715
2 324/718
2 340/10.42
2 340/541
2 340/853.3
2 340/928
2 342/146
2 342/158
2 342/189
2 342/192
2 342/44
2 348/250
2 348/251
2 348/313
2 360/77.11
2 360/77.12
2 361/118
2 361/119
2 365/201
2 377/81
2 382/312
2 424/139.1
2 435/235.1
2 435/253.3
2 435/254.11
2 435/331
2 435/4
2 435/7.2
2 435/7.21
2 435/7.92
2 514/318
2 514/334
2 514/473
2 525/194
2 530/387.7
2 530/388.2
2 530/388.22
2 530/388.24
2 530/388.8
2 530/389.1
2 536/24.31
2 544/120
2 544/91
2 702/74
2 708/523
2 711/118
2 711/123
2 711/200
2 711/202
2 711/206
2 711/213
2 712/1
2 712/210
2 712/211
2 712/212
2 712/216
2 712/221

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2 712/223
2 712/227
2 712/229
2 712/234
2 712/237
2 712/238
2 712/36
2 712/4
2 712/41
2 712/42
2 712/7
2 712/8
2 712/9
2 715/505
2 715/529
2 715/531
2 715/539
2 715/541

Combined Classifications

35 342/22
15 712/217
13 712/23
12 435/69.1
12 712/215
11 342/195
10 435/325
9 342/175
9 342/27
9 435/320.1
9 712/218
7 324/326
7 324/337
7 435/252.3
7 536/23.5
6 342/176
6 530/350
5 175/45
5 342/179
5 342/196
5 367/87
5 435/7.1
5 514/255.05
5 712/228
5 712/244
5 712/41
4 175/26
4 324/329
4 340/853.4
4 342/118
4 342/459
4 360/77.07
4 361/111
4 514/326
4 530/387.9
4 536/23.1
4 703/26
4 711/207
4 712/209
4 712/214
4 712/216
4 712/225
4 712/36

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3 73/574
3 73/661
3 152/525
3 175/40
3 180/168
3 257/301
3 257/E27.112
3 324/220
3 324/338
3 324/713
3 340/853.1
3 340/853.5
3 340/853.6
3 342/190
3 342/191
3 342/21
3 360/77.12
3 361/56
3 365/149
3 367/99
3 435/4
3 435/471
3 435/7.2
3 435/7.24
3 435/71.1
3 435/71.2
3 525/194
3 544/405
3 707/3
3 711/200
3 711/202
3 711/206
3 712/205
3 712/206
3 712/208
3 712/213
3 712/221
3 712/223
3 712/227
3 712/233
3 712/234
3 712/240
3 712/26
3 712/35
2 37/348
2 73/633
2 172/5
2 175/24
2 175/61
2 235/380
2 250/362
2 250/369
2 250/392
2 257/223
2 257/229
2 257/230
2 257/269
2 257/304
2 257/332
2 257/339
2 257/347
2 257/376
2 257/E21.537

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2 257/E27.06
2 257/E27.077
2 257/E27.084
2 257/E27.092
2 324/226
2 324/239
2 324/240
2 324/333
2 324/334
2 324/336
2 324/345
2 324/357
2 324/693
2 324/715
2 324/718
2 326/40
2 340/10.2
2 340/10.42
2 340/541
2 340/853.3
2 340/928
2 342/146
2 342/158
2 342/189
2 342/192
2 342/357.06
2 342/44
2 348/250
2 348/251
2 348/313
2 360/77.01
2 360/77.11
2 361/118
2 361/119
2 361/42
2 365/201
2 376/159
2 377/81
2 382/312
2 424/139.1
2 424/143.1
2 435/235.1
2 435/253.3
2 435/254.11
2 435/331
2 435/7.21
2 435/7.92
2 514/19
2 514/230.5
2 514/318
2 514/334
2 514/473
2 525/209
2 525/240
2 530/324
2 530/387.7
2 530/388.2
2 530/388.22
2 530/388.24
2 530/388.8
2 530/389.1
2 536/24.31
2 544/120

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2 544/91
2 702/6
2 702/74
2 703/27
2 707/104.1
2 707/203
2 708/523
2 711/118
2 711/123
2 711/125
2 711/151
2 711/154
2 711/204
2 711/208
2 711/213
2 711/3
2 712/1
2 712/207
2 712/210
2 712/211
2 712/212
2 712/219
2 712/229
2 712/237
2 712/238
2 712/24
2 712/245
2 712/4
2 712/42
2 712/43
2 712/7
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2 712/9
2 715/505
2 715/529
2 715/531
2 715/539
2 715/541

10769965_CLSTITLES.txt
Titles of Most Frequently Occurring Classifications of Patents Returned
From A Search of 10769965 on September 07, 2005

- 35 342/22 (30 OR, 5 XR)
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
AND DEVICES
342/22 TRANSMISSION THROUGH MEDIA OTHER THAN AIR OR
FREE SPACE
- 15 712/217 (10 OR, 5 XR)
Class 712 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING
SYSTEMS: PROCESSING ARCHITECTURES AND INSTRUCTION
PROCESSING
712/216 DYNAMIC INSTRUCTION DEPENDENCY CHECKING,
MONITORING OR CONFLICT RESOLUTION
712/217 .Scoreboarding, reservation station, or
aliasing
- 13 712/23 (7 OR, 6 XR)
Class 712 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING
SYSTEMS: PROCESSING ARCHITECTURES AND INSTRUCTION
PROCESSING
712/1 PROCESSING ARCHITECTURE
712/23 .Superscalar
- 12 435/69.1 (6 OR, 6 XR)
Class 435 : CHEMISTRY: MOLECULAR BIOLOGY AND MICROBIOLOGY
435/41 MICRO-ORGANISM, TISSUE CELL CULTURE OR ENZYME
USING PROCESS TO SYNTHESIZE A DESIRED CHEMICAL COMPOUND
OR
435/69.1 .COMPOSITION
.Recombinant DNA technique included in method
of making a protein or polypeptide
- 12 712/215 (4 OR, 8 XR)
Class 712 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING
SYSTEMS: PROCESSING ARCHITECTURES AND INSTRUCTION
PROCESSING
712/214 INSTRUCTION ISSUING
712/215 .Simultaneous issuance of multiple instructions
- 11 342/195 (0 OR, 11 XR)
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
AND DEVICES
342/175 WITH PARTICULAR CIRCUIT
342/195 .Digital processing
- 10 435/325 (0 OR, 10 XR)
Class 435 : CHEMISTRY: MOLECULAR BIOLOGY AND MICROBIOLOGY
435/325 ANIMAL CELL, PER SE (E.G., CELL LINES, ETC.);
COMPOSITION THEREOF; PROCESS OF PROPAGATING, MAINTAINING
OR
PRESERVING AN ANIMAL CELL OR COMPOSITION THEREOF; PROCESS
OF ISOLATING OR SEPARATING AN ANIMAL CELL OR COMPOSITION
THEREOF; PROCESS OF PREPARING A COMPOSITION CONTAINING AN
ANIMAL CELL; CULTURE MEDIA THEREFORE
- 9 342/175 (0 OR, 9 XR)
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS

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AND DEVICES
342/175 WITH PARTICULAR CIRCUIT

- 9 342/27 (0 OR, 9 XR)
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
AND DEVICES
342/27 PRESENCE DETECTION ONLY
- 9 435/320.1 (0 OR, 9 XR)
Class 435 : CHEMISTRY: MOLECULAR BIOLOGY AND MICROBIOLOGY
435/320.1 VECTOR, PER SE (E.G., PLASMID, HYBRID PLASMID,
COSMID, VIRAL VECTOR, BACTERIOPHAGE VECTOR, ETC.)
BACTERIOPHAGE VECTOR, ETC.)
- 9 712/218 (4 OR, 5 XR)
Class 712 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING
SYSTEMS: PROCESSING ARCHITECTURES AND INSTRUCTION
PROCESSING
712/216 DYNAMIC INSTRUCTION DEPENDENCY CHECKING,
MONITORING OR CONFLICT RESOLUTION
712/218 .Commitment control or register bypass
- 7 324/326 (3 OR, 4 XR)
Class 324 : ELECTRICITY: MEASURING AND TESTING
324/323 OF GEOPHYSICAL SURFACE OR SUBSURFACE IN SITU
324/326 .For small object detection or location
- 7 324/337 (0 OR, 7 XR)
Class 324 : ELECTRICITY: MEASURING AND TESTING
324/323 OF GEOPHYSICAL SURFACE OR SUBSURFACE IN SITU
324/332 .With radiant energy or nonconductive-type
transmitter
324/334 ..With separate pickup
324/337 ...To detect return wave signals
- 7 435/252.3 (0 OR, 7 XR)
Class 435 : CHEMISTRY: MOLECULAR BIOLOGY AND MICROBIOLOGY
435/243 MICRO-ORGANISM, PER SE (E.G., PROTOZOA, ETC.);
COMPOSITIONS THEREOF; PROCESSES OF PROPAGATING,
MAINTAINING OR
PROCESS PRESERVING MICRO-ORGANISMS OR COMPOSITIONS THEREOF;
OF PREPARING OR ISOLATING A COMPOSITION CONTAINING A
MICRO-ORGANISM; CULTURE MEDIA THEREFOR
435/252.1 .Bacteria or actinomycetales; media therefor
435/252.3 ..Transformants (e.g., recombinant DNA or
vector or foreign or exogenous gene containing, fused
bacteria, etc.)
- 7 536/23.5 (2 OR, 5 XR)
Class 536 : ORGANIC COMPOUNDS -- PART OF THE CLASS
532-570 SERIES
536/1.11 .Carbohydrates or derivatives
536/18.7 ..Nitrogen containing
536/22.1 ...N-glycosides, polymers thereof, metal
derivatives (e.g., nucleic acids, oligonucleotides,
etc.)
- 536/23.1DNA or RNA fragments or modified forms
thereof (e.g., genes, etc.)
536/23.5Encodes an animal polypeptide

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- 6 342/176 (0 OR, 6 XR)
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
AND DEVICES
342/175 WITH PARTICULAR CIRCUIT
342/176 .Display
- 6 530/350 (3 OR, 3 XR)
Class 530 : CHEMISTRY: NATURAL RESINS OR DERIVATIVES;
PEPTIDES OR PROTEINS; LIGNINS OR REACTION PRODUCTS
530/350 PROTEINS, I.E., MORE THAN 100 AMINO ACID
RESIDUES
- 5 175/45 (1 OR, 4 XR)
Class 175 : BORING OR PENETRATING THE EARTH
WITH SIGNALING, INDICATING, TESTING OR
MEASURING
175/45 .Tool position direction or inclination
measuring or indicating within the bore
- 5 342/179 (0 OR, 5 XR)
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
AND DEVICES
342/175 WITH PARTICULAR CIRCUIT
342/176 .Display
342/179 ..Image production
- 5 342/196 (0 OR, 5 XR)
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
AND DEVICES
342/175 WITH PARTICULAR CIRCUIT
342/195 .Digital processing
342/196 ..Fast fourier transform (FFT)
- 5 367/87 (0 OR, 5 XR)
Class 367 : COMMUNICATIONS, ELECTRICAL: ACOUSTIC WAVE
SYSTEMS AND DEVICES
367/87 ECHO SYSTEMS
- 5 435/7.1 (1 OR, 4 XR)
Class 435 : CHEMISTRY: MOLECULAR BIOLOGY AND MICROBIOLOGY
435/4 MEASURING OR TESTING PROCESS INVOLVING ENZYMES
OR MICRO-ORGANISMS; COMPOSITION OR TEST STRIP THEREFORE;
435/7.1 .Processes of forming such composition or test strip
.Involving antigen-antibody binding, specific
binding protein assay or specific ligand-receptor binding
assay
- 5 514/255.05 (4 OR, 1 XR)
Class 514 : DRUG, BIO-AFFECTING AND BODY TREATING
COMPOSITIONS
514/1 DESIGNATED ORGANIC ACTIVE INGREDIENT CONTAINING
(DOAI)
514/183 .Heterocyclic carbon compounds containing a
hetero ring having chalcogen (i.e., O,S,Se or Te) or
nitrogen as the only ring hetero atoms DOAI
514/247 ..Hetero ring is six-membered consisting of two
nitrogens and four carbon atoms (e.g., pyridazines,
etc.)

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514/252.1 ...1,4 diazines
 514/255.05 Additional hetero ring attached directly or
 indirectly to the 1,4-diazine ring by nonionic bonding

5 712/228 (1 OR, 4 XR)
 Class 712 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING
 SYSTEMS: PROCESSING ARCHITECTURES AND INSTRUCTION
 PROCESSING
 712/220 PROCESSING CONTROL
 712/228 .Context preserving (e.g., context swapping,
 checkpointing, register windowing)

5 712/244 (2 OR, 3 XR)
 Class 712 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING
 SYSTEMS: PROCESSING ARCHITECTURES AND INSTRUCTION
 PROCESSING
 712/220 PROCESSING CONTROL
 712/233 .Branching (e.g., delayed branch, loop control,
 branch predict, interrupt)
 712/244 ..Exception processing (e.g., interrupts and
 traps)

5 712/41 (3 OR, 2 XR)
 Class 712 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING
 SYSTEMS: PROCESSING ARCHITECTURES AND INSTRUCTION
 PROCESSING
 712/1 PROCESSING ARCHITECTURE
 712/32 .Microprocessor or multichip or multimodule
 processor having sequential program control
 712/41 ..RISC

4 175/26 (4 OR, 0 XR)
 Class 175 : BORING OR PENETRATING THE EARTH
 175/24 AUTOMATIC CONTROL
 175/26 .of boring means including a below-ground drive
 prime mover

4 324/329 (2 OR, 2 XR)
 Class 324 : ELECTRICITY: MEASURING AND TESTING
 324/323 OF GEOPHYSICAL SURFACE OR SUBSURFACE IN SITU
 324/326 .For small object detection or location
 324/329 ..Using movable transmitter and receiver

4 340/853.4 (0 OR, 4 XR)
 Class 340 : COMMUNICATIONS: ELECTRICAL
 340/853.1 WELLBORE TELEMETRY OR CONTROL (E.G.,
 SUBSURFACE TOOL GUIDANCE, DATA TRANSFER, ETC.)
 340/853.3 .Selective control of subsurface equipment
 340/853.4 ..In horizontal or inclined drilling or passage

4 342/118 (0 OR, 4 XR)
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
 AND DEVICES
 342/118 DETERMINING DISTANCE

4 342/459 (0 OR, 4 XR)
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
 AND DEVICES
 342/350 DIRECTIVE
 342/450 .Position indicating (e.g., triangulation)
 342/459 ..Underground object location

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- 4 360/77.07 (0 OR, 4 XR)
 Class 360 : DYNAMIC MAGNETIC INFORMATION STORAGE OR
 RETRIEVAL
 360/69 AUTOMATIC CONTROL OF A RECORDER MECHANISM
 360/75 .Controlling the head
 360/77.01 ..Track centering
 360/77.02 ..Rotary carrier
 360/77.07By tracking signal recorded on or
 immediately beneath surface
- 4 361/111 (0 OR, 4 XR)
 Class 361 : ELECTRICITY: ELECTRICAL SYSTEMS AND DEVICES
 361/1 SAFETY AND PROTECTION OF SYSTEMS AND DEVICES
 361/111 .Transient responsive
- 4 514/326 (0 OR, 4 XR)
 Class 514 : DRUG, BIO-AFFECTING AND BODY TREATING
 COMPOSITIONS
 514/1 DESIGNATED ORGANIC ACTIVE INGREDIENT CONTAINING
 (DOAI)
 514/183 .Heterocyclic carbon compounds containing a
 hetero ring having chalcogen (i.e., O,S,Se or Te) or
 nitrogen as the only ring hetero atoms DOAI
 514/277 ..Hetero ring is six-membered consisting of one
 nitrogen and five carbon atoms
 514/315 ...Piperidines
 514/317Additional ring containing
 514/326The additional ring is a hetero ring
- 4 530/387.9 (0 OR, 4 XR)
 Class 530 : CHEMISTRY: NATURAL RESINS OR DERIVATIVES;
 PEPTIDES OR PROTEINS; LIGNINS OR REACTION PRODUCTS
 THEREOF
 530/350 PROTEINS, I.E., MORE THAN 100 AMINO ACID
 RESIDUES
 530/380 .Blood proteins or globulins, e.g.,
 proteoglycans, platelet factor 4, thyroglobulin,
 thyroxine,
 etc.
 530/386 ..Globulins
 530/387.1 ...Immunoglobulin, antibody, or fragment
 thereof, other than immunoglobulin antibody, or fragment
 thereof that is conjugated or absorbed
 530/387.9Binds specifically-identified amino acid
 sequence
- 4 536/23.1 (0 OR, 4 XR)
 Class 536 : ORGANIC COMPOUNDS -- PART OF THE CLASS
 532-570 SERIES
 536/1.11 .Carbohydrates or derivatives
 536/18.7 ..Nitrogen containing
 536/22.1 ...N-glycosides, polymers thereof, metal
 derivatives (e.g., nucleic acids, oligonucleotides,
 etc.)
 536/23.1DNA or RNA fragments or modified forms
 thereof (e.g., genes, etc.)
- 4 703/26 (1 OR, 3 XR)
 Class 703 : DATA PROCESSING: STRUCTURAL DESIGN,
 MODELING, SIMULATION, AND EMULATION
 703/23 EMULATION

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703/26 .of instruction

- 4 711/207 (0 OR, 4 XR)
Class 711 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING
SYSTEMS: MEMORY
711/200 ADDRESS FORMATION
711/202 .Address mapping (e.g., conversion,
translation)
711/203 ..Virtual addressing
711/206 ...Translation tables (e.g., segment and page
table or map)
711/207Directory tables (e.g., DLAT, TLB)
- 4 712/209 (1 OR, 3 XR)
Class 712 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING
SYSTEMS: PROCESSING ARCHITECTURES AND INSTRUCTION
PROCESSING
712/208 INSTRUCTION DECODING (E.G., BY
MICROINSTRUCTION, START ADDRESS GENERATOR, HARDWIRED)
712/209 .Decoding instruction to accommodate plural
instruction interpretations (e.g., different dialects,
languages, emulation, etc.)
- 4 712/214 (0 OR, 4 XR)
Class 712 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING
SYSTEMS: PROCESSING ARCHITECTURES AND INSTRUCTION
PROCESSING
712/214 INSTRUCTION ISSUING
- 4 712/216 (2 OR, 2 XR)
Class 712 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING
SYSTEMS: PROCESSING ARCHITECTURES AND INSTRUCTION
PROCESSING
712/216 DYNAMIC INSTRUCTION DEPENDENCY CHECKING,
MONITORING OR CONFLICT RESOLUTION
- 4 712/225 (3 OR, 1 XR)
Class 712 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING
SYSTEMS: PROCESSING ARCHITECTURES AND INSTRUCTION
PROCESSING
712/220 PROCESSING CONTROL
712/225 .Processing control for data transfer
- 4 712/36 (2 OR, 2 XR)
Class 712 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING
SYSTEMS: PROCESSING ARCHITECTURES AND INSTRUCTION
PROCESSING
712/1 PROCESSING ARCHITECTURE
712/32 .Microprocessor or multichip or multimodule
processor having sequential program control
712/36 ..Application specific
- 3 73/574 (3 OR, 0 XR)
Class 073 : MEASURING AND TESTING
73/570 VIBRATION
73/574 .Mechanical impedance
- 3 73/661 (0 OR, 3 XR)
Class 073 : MEASURING AND TESTING
73/570 VIBRATION
73/649 .Sensing apparatus
73/658 ..With electrically controlled indicator
73/661 ...Having a probe

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- 3 152/525 (1 OR, 2 XR)
Class 152 : RESILIENT TIRES AND WHEELS
152/209.26Having circumferential groove width at least per cent of tread width
152/450 .Pneumatic tire or inner tube
152/525 ..Characterized by chemical composition or physical properties of external sidewall materials
- 3 175/40 (0 OR, 3 XR)
Class 175 : BORING OR PENETRATING THE EARTH
175/40 WITH SIGNALING, INDICATING, TESTING OR MEASURING
- 3 180/168 (0 OR, 3 XR)
Class 180 : MOTOR VEHICLES
180/167 WITH MEANS FOR CONTROLLING OPERATION RESPONSIVE TO ELECTROMAGNETIC RADIATION, MAGNETIC FORCE, OR SOUND WAVES RECEIVED FROM SOURCE, OR REFLECTED FROM OBJECT OR SURFACE, LOCATED APART FROM VEHICLE
180/168 .Having controlling means adapted to interact with stationary means which describes course of vehicle's travel
- 3 257/301 (2 OR, 1 XR)
Class 257 : ACTIVE SOLID-STATE DEVICES
257/264 ...Enhancement mode or with high resistivity channel (e.g., doping of 10 15 cm⁻³ or less)
257/288 .Having insulated electrode (e.g., MOSFET, MOS diode)
257/296 ..Insulated gate capacitor or insulated gate transistor combined with capacitor (e.g., dynamic memory cell)
257/301 ...Capacitor in trench
- 3 257/E27.112 (0 OR, 3 XR)
Class 257 : ACTIVE SOLID-STATE DEVICES
257/E27.006 .Including piezo-electric, electro-resistive, or magneto-resistive component (EPO)
257/E27.009 ..Including semiconductor component with at least one potential barrier or surface barrier adapted for rectifying, oscillating, amplifying, or switching, or including integrated passive circuit elements (EPO)
257/E27.111 ..Substrate comprising other than a semiconductor material, e.g. insulating substrate or layered substrate including a non-semiconductor layer (EPO)
257/E27.112 ...Including insulator on semiconductor, e.g. SOI (silicon on insulator) (EPO)
- 3 324/220 (1 OR, 2 XR)
Class 324 : ELECTRICITY: MEASURING AND TESTING
324/200 MAGNETIC
324/219 ..Magnetic sensor within material
324/220 ..Sensor supported, positioned, or moved within pipe
- 3 324/338 (0 OR, 3 XR)
Class 324 : ELECTRICITY: MEASURING AND TESTING
324/323 OF GEOPHYSICAL SURFACE OR SUBSURFACE IN SITU
324/332 ..With radiant energy or nonconductive-type

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transmitter

- 324/334 ..With separate pickup
324/338 ...within a borehole

3 324/713 (1 OR, 2 XR)

- Class 324 : ELECTRICITY: MEASURING AND TESTING
324/600 IMPEDANCE, ADMITTANCE OR OTHER QUANTITIES
REPRESENTATIVE OF ELECTRICAL STIMULUS/RESPONSE
RELATIONSHIPS
324/649 .Lumped type parameters
324/691 ..Using resistance or conductance measurement
324/713 ...with voltage or current signal evaluation

3 340/853.1 (0 OR, 3 XR)

- Class 340 : COMMUNICATIONS: ELECTRICAL
340/853.1 WELLBORE TELEMETRY OR CONTROL (E.G.,
SUBSURFACE TOOL GUIDANCE, DATA TRANSFER, ETC.)

3 340/853.5 (0 OR, 3 XR)

- Class 340 : COMMUNICATIONS: ELECTRICAL
340/853.1 WELLBORE TELEMETRY OR CONTROL (E.G.,
SUBSURFACE TOOL GUIDANCE, DATA TRANSFER, ETC.)
340/853.3 .Selective control of subsurface equipment
340/853.4 ..In horizontal or inclined drilling or passage
340/853.5 ...Control of drilling apparatus using magnetic
field

3 340/853.6 (0 OR, 3 XR)

- Class 340 : COMMUNICATIONS: ELECTRICAL
340/853.1 WELLBORE TELEMETRY OR CONTROL (E.G.,
SUBSURFACE TOOL GUIDANCE, DATA TRANSFER, ETC.)
340/853.3 .Selective control of subsurface equipment
340/853.6 ..Control of drill bit or apparatus (e.g.,
steering, speed, etc.)

3 342/190 (0 OR, 3 XR)

- Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
AND DEVICES
342/175 WITH PARTICULAR CIRCUIT
342/190 .With recording

3 342/191 (0 OR, 3 XR)

- Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
AND DEVICES
342/175 WITH PARTICULAR CIRCUIT
342/190 .With recording
342/191 ..Mapping

3 342/21 (0 OR, 3 XR)

- Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
AND DEVICES
342/21 BASE BAND SYSTEM

3 360/77.12 (1 OR, 2 XR)

- Class 360 : DYNAMIC MAGNETIC INFORMATION STORAGE OR
RETRIEVAL
360/69 AUTOMATIC CONTROL OF A RECORDER MECHANISM
360/75 .Controlling the head
360/77.01 ..Track centering
360/77.12 ...Elongated web carrier (i.e., tape)

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- 3 361/56 (2 OR, 1 XR)
Class 361 : ELECTRICITY: ELECTRICAL SYSTEMS AND DEVICES
361/1 SAFETY AND PROTECTION OF SYSTEMS AND DEVICES
361/54 .Load shunting by fault responsive means (e.g.,
crowbar circuit)
361/56 ..Voltage responsive
- 3 365/149 (2 OR, 1 XR)
Class 365 : STATIC INFORMATION STORAGE AND RETRIEVAL
365/129 SYSTEMS USING PARTICULAR ELEMENT
365/149 .Capacitors
- 3 367/99 (2 OR, 1 XR)
Class 367 : COMMUNICATIONS, ELECTRICAL: ACOUSTIC WAVE
SYSTEMS AND DEVICES
367/87 ECHO SYSTEMS
367/99 .Distance or direction finding
- 3 435/4 (1 OR, 2 XR)
Class 435 : CHEMISTRY: MOLECULAR BIOLOGY AND MICROBIOLOGY
435/4 MEASURING OR TESTING PROCESS INVOLVING ENZYMES
OR MICRO-ORGANISMS; COMPOSITION OR TEST STRIP THEREFORE;
PROCESSES OF FORMING SUCH COMPOSITION OR TEST STRIP
- 3 435/471 (0 OR, 3 XR)
Class 435 : CHEMISTRY: MOLECULAR BIOLOGY AND MICROBIOLOGY
435/455 .Introduction of a polynucleotide molecule into
or rearrangement of nucleic acid within an animal cell
435/471 .Introduction of a polynucleotide molecule into
or rearrangement of nucleic acid within a microorganism
(e.g., bacteria, protozoa, bacteriophage, etc.)
- 3 435/7.2 (1 OR, 2 XR)
Class 435 : CHEMISTRY: MOLECULAR BIOLOGY AND MICROBIOLOGY
435/4 MEASURING OR TESTING PROCESS INVOLVING ENZYMES
OR MICRO-ORGANISMS; COMPOSITION OR TEST STRIP
THEREFORE;
435/7.1 .Involving antigen-antibody binding, specific
binding protein assay or specific ligand-receptor
binding assay
435/7.2 ..Involving a micro-organism or cell membrane
bound antigen or cell membrane bound receptor or cell
membrane bound antibody or microbial lysate
- 3 435/7.24 (2 OR, 1 XR)
Class 435 : CHEMISTRY: MOLECULAR BIOLOGY AND MICROBIOLOGY
435/4 MEASURING OR TESTING PROCESS INVOLVING ENZYMES
OR MICRO-ORGANISMS; COMPOSITION OR TEST STRIP
THEREFORE;
435/7.1 .Involving antigen-antibody binding, specific
binding protein assay or specific ligand-receptor
binding assay
435/7.2 ..Involving a micro-organism or cell membrane
bound antigen or cell membrane bound receptor or cell

membrane bound antibody or microbial lysate

435/7.21 ...Animal cell

435/7.24 ...Leukocyte (e.g., lymphocyte, granulocyte, monocyte, etc.)

3 435/71.1 (0 OR, 3 XR)

Class 435 : CHEMISTRY: MOLECULAR BIOLOGY AND MICROBIOLOGY

435/41 MICRO-ORGANISM, TISSUE CELL CULTURE OR ENZYME
USING PROCESS TO SYNTHESIZE A DESIRED CHEMICAL COMPOUND

OR

COMPOSITION

435/71.1 .Using a micro-organism to make a protein or polypeptide

3 435/71.2 (0 OR, 3 XR)

Class 435 : CHEMISTRY: MOLECULAR BIOLOGY AND MICROBIOLOGY

435/41 MICRO-ORGANISM, TISSUE CELL CULTURE OR ENZYME
USING PROCESS TO SYNTHESIZE A DESIRED CHEMICAL COMPOUND

OR

COMPOSITION

435/71.1 .Using a micro-organism to make a protein or polypeptide

435/71.2 ..Prokaryotic micro-organism

3 525/194 (1 OR, 2 XR)

Class 525 : SYNTHETIC RESINS OR NATURAL RUBBERS -- PART
OF THE CLASS 520 SERIES

525/50 .MIXING OF TWO OR MORE SOLID POLYMERS; MIXING
OF SOLID POLYMER OR SICP WITH SICP OR SPF1; MIXING OF

SICP

A

OF THE

ABOVE OPERATIONS

525/55 ..At least one solid polymer derived from ethylenic reactants only

525/191 ...Polymer mixture of two or more solid polymers derived from ethylenically unsaturated

reactants

only; or mixtures of said polymer mixture with a treating agent; or products or processes of preparing

chemical

any

of the above mixtures

525/192Treating polymer or polymer mixture with a chemical treating agent other than solid polymer

525/194Agent is an organic material

3 544/405 (0 OR, 3 XR)

Class 544 : ORGANIC COMPOUNDS -- PART OF THE CLASS
532-570 SERIES

nitrogen

544/1 ..Hetero ring is six-membered having two or more ring hetero atoms of which at least one is

(e.g., selenazines, etc.)

544/224 ...The six-membered hetero ring consists of two nitrogens and four carbons (e.g., 1,2-diazines, etc.)

544/3361,4-diazines

544/405Additional hetero ring which is

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unsaturated

- 3 707/3 (0 OR, 3 XR)
Class 707 : DATA PROCESSING: DATABASE AND FILE
MANAGEMENT OR DATA STRUCTURES
707/1 DATABASE OR FILE ACCESSING
707/3 .Query processing (i.e., searching)
- 3 711/200 (1 OR, 2 XR)
Class 711 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING
SYSTEMS: MEMORY
711/200 ADDRESS FORMATION
- 3 711/202 (1 OR, 2 XR)
Class 711 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING
SYSTEMS: MEMORY
711/200 ADDRESS FORMATION
711/202 .Address mapping (e.g., conversion,
translation)
- 3 711/206 (1 OR, 2 XR)
Class 711 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING
SYSTEMS: MEMORY
711/200 ADDRESS FORMATION
711/202 .Address mapping (e.g., conversion,
translation)
711/203 ..virtual addressing
711/206 ...Translation tables (e.g., segment and page
table or map)
- 3 712/205 (0 OR, 3 XR)
Class 712 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING
SYSTEMS: PROCESSING ARCHITECTURES AND INSTRUCTION
PROCESSING
712/205 INSTRUCTION FETCHING
- 3 712/206 (0 OR, 3 XR)
Class 712 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING
SYSTEMS: PROCESSING ARCHITECTURES AND INSTRUCTION
PROCESSING
712/205 INSTRUCTION FETCHING
712/206 .of multiple instructions simultaneously
- 3 712/208 (0 OR, 3 XR)
Class 712 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING
SYSTEMS: PROCESSING ARCHITECTURES AND INSTRUCTION
PROCESSING
712/208 INSTRUCTION DECODING (E.G., BY
MICROINSTRUCTION, START ADDRESS GENERATOR, HARDWIRED)
- 3 712/213 (0 OR, 3 XR)
Class 712 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING
SYSTEMS: PROCESSING ARCHITECTURES AND INSTRUCTION
PROCESSING
712/209 .Decoding instruction to accommodate plural
instruction interpretations (e.g., different dialects,
languages, emulation, etc.)
712/213 .Predecoding of instruction component
- 3 712/221 (1 OR, 2 XR)
Class 712 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING
SYSTEMS: PROCESSING ARCHITECTURES AND INSTRUCTION
PROCESSING

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- 712/220 PROCESSING CONTROL
712/221 .Arithmetic operation instruction processing
- 3 712/223 (1 OR, 2 XR)
Class 712 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING
 SYSTEMS: PROCESSING ARCHITECTURES AND INSTRUCTION
 PROCESSING
712/220 PROCESSING CONTROL
712/223 .Logic operation instruction processing
- 3 712/227 (1 OR, 2 XR)
Class 712 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING
 SYSTEMS: PROCESSING ARCHITECTURES AND INSTRUCTION
 PROCESSING
712/220 PROCESSING CONTROL
712/227 .Specialized instruction processing in support
 of testing, debugging, emulation
- 3 712/233 (0 OR, 3 XR)
Class 712 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING
 SYSTEMS: PROCESSING ARCHITECTURES AND INSTRUCTION
 PROCESSING
712/220 PROCESSING CONTROL
712/233 .Branching (e.g., delayed branch, loop control,
 branch predict, interrupt)
- 3 712/234 (1 OR, 2 XR)
Class 712 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING
 SYSTEMS: PROCESSING ARCHITECTURES AND INSTRUCTION
 PROCESSING
712/220 PROCESSING CONTROL
712/233 .Branching (e.g., delayed branch, loop control,
 branch predict, interrupt)
712/234 ..Conditional branching
- 3 712/240 (0 OR, 3 XR)
Class 712 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING
 SYSTEMS: PROCESSING ARCHITECTURES AND INSTRUCTION
 PROCESSING
712/220 PROCESSING CONTROL
712/233 .Branching (e.g., delayed branch, loop control,
 branch predict, interrupt)
712/234 ..Conditional branching
712/239 ...Branch prediction
712/240 History table
- 3 712/26 (0 OR, 3 XR)
Class 712 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING
 SYSTEMS: PROCESSING ARCHITECTURES AND INSTRUCTION
 PROCESSING
712/1 PROCESSING ARCHITECTURE
712/25 .Data driven or demand driven processor
712/26 ..Detection/pairing based on destination, ID
 tag, or data
- 3 712/35 (2 OR, 1 XR)
Class 712 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING
 SYSTEMS: PROCESSING ARCHITECTURES AND INSTRUCTION
 PROCESSING
712/1 PROCESSING ARCHITECTURE
712/32 .Microprocessor or multichip or multimodule
 processor having sequential program control
712/34 ..Including coprocessor

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712/35 ...Digital signal processor

2 37/348 (0 OR, 2 XR)
Class 037 : EXCAVATING
37/347 DITCHER
37/348 .Condition responsive

2 73/633 (2 OR, 0 XR)
Class 073 : MEASURING AND TESTING
73/570 VIBRATION
73/584 .By mechanical waves
73/596 ..Beamed
73/632 ...Sonic wave transmitter or receiver
 transducer
73/633 Having transducer scanning means

2 172/5 (1 OR, 1 XR)
Class 172 : EARTH WORKING
172/2 AUTOMATIC POWER CONTROL
172/5 .Obstruction sensing type (includes plant
 sensing)

2 175/24 (0 OR, 2 XR)
Class 175 : BORING OR PENETRATING THE EARTH
175/24 AUTOMATIC CONTROL

2 175/61 (2 OR, 0 XR)
Class 175 : BORING OR PENETRATING THE EARTH
175/57 PROCESSES
175/61 .Boring curved or redirected bores

2 235/380 (1 OR, 1 XR)
Class 235 : REGISTERS
235/375 SYSTEMS CONTROLLED BY DATA BEARING RECORDS
235/380 .Credit or identification card systems

2 250/362 (0 OR, 2 XR)
Class 250 : RADIANT ENERGY
250/336.1 INVISIBLE RADIANT ENERGY RESPONSIVE ELECTRIC
 SIGNALLING
250/361R .with or including a luminophor
250/362 ..Methods

2 250/369 (2 OR, 0 XR)
Class 250 : RADIANT ENERGY
250/336.1 INVISIBLE RADIANT ENERGY RESPONSIVE ELECTRIC
 SIGNALLING
250/361R .with or including a luminophor
250/369 ..With output system

2 250/392 (0 OR, 2 XR)
Class 250 : RADIANT ENERGY
250/336.1 INVISIBLE RADIANT ENERGY RESPONSIVE ELECTRIC
 SIGNALLING
250/390.01 .Neutron responsive means
250/392 ..With indicating or recording means

2 257/223 (2 OR, 0 XR)
Class 257 : ACTIVE SOLID-STATE DEVICES
257/213 FIELD EFFECT DEVICE
257/215 .Charge transfer device
257/216 ..Majority signal carrier (e.g., buried or bulk
 channel, or peristaltic)

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257/222	...Responsive to non-electrical external signal (e.g., imager)
257/223Having structure to improve output signal (e.g., antiblooming drain)
2 257/229 (0 OR, 2 XR)	
Class 257	: ACTIVE SOLID-STATE DEVICES
257/213	FIELD EFFECT DEVICE
257/215	.Charge transfer device
257/225	..Non-electrical input responsive (e.g., light responsive imager, input programmed by size of storage sites for use as a read-only memory, etc.)
257/229	...Having structure to improve output signal (e.g., exposure control structure)
2 257/230 (0 OR, 2 XR)	
Class 257	: ACTIVE SOLID-STATE DEVICES
257/213	FIELD EFFECT DEVICE
257/215	.Charge transfer device
257/225	..Non-electrical input responsive (e.g., light responsive imager, input programmed by size of storage sites for use as a read-only memory, etc.)
257/229	...Having structure to improve output signal (e.g., exposure control structure)
257/230With blooming suppression structure
2 257/269 (0 OR, 2 XR)	
Class 257	: ACTIVE SOLID-STATE DEVICES
257/213	FIELD EFFECT DEVICE
257/256	.Junction field effect transistor (unipolar transistor)
257/268	..Enhancement mode
257/269	...with means to adjust barrier height (e.g., doping profile)
2 257/304 (0 OR, 2 XR)	
Class 257	: ACTIVE SOLID-STATE DEVICES
257/264	...Enhancement mode or with high resistivity channel (e.g., doping of 10^{15} cm^{-3} or less)
257/288	.Having insulated electrode (e.g., MOSFET, MOS diode)
257/296	..Insulated gate capacitor or insulated gate transistor combined with capacitor (e.g., dynamic memory cell)
257/301	...Capacitor in trench
257/304Storage node isolated by dielectric from semiconductor substrate
2 257/332 (0 OR, 2 XR)	
Class 257	: ACTIVE SOLID-STATE DEVICES
257/264	...Enhancement mode or with high resistivity channel (e.g., doping of 10^{15} cm^{-3} or less)
257/288	.Having insulated electrode (e.g., MOSFET, MOS diode)
257/327	..Short channel insulated gate field effect transistor
257/329	...Gate controls vertical charge flow portion of channel (e.g., VMOS device)
257/330Gate electrode in groove
257/332Gate electrode self-aligned with groove
2 257/339 (0 OR, 2 XR)	

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Class 257 : ACTIVE SOLID-STATE DEVICES

257/264 ...Enhancement mode or with high resistivity channel (e.g., doping of 10 15 cm⁻³ or less)

257/288 .Having insulated electrode (e.g., MOSFET, MOS diode)

257/327 ..Short channel insulated gate field effect transistor

257/335 ...Active channel region has a graded dopant concentration decreasing with distance from source region
(e.g., double diffused device, DMOS transistor)

257/339With means to increase breakdown voltage

2 257/347 (2 OR, 0 XR)

Class 257 : ACTIVE SOLID-STATE DEVICES

257/264 ...Enhancement mode or with high resistivity channel (e.g., doping of 10 15 cm⁻³ or less)

257/288 .Having insulated electrode (e.g., MOSFET, MOS diode)

257/347 ..Single crystal semiconductor layer on insulating substrate (SOI)

2 257/376 (0 OR, 2 XR)

Class 257 : ACTIVE SOLID-STATE DEVICES

257/264 ...Enhancement mode or with high resistivity channel (e.g., doping of 10 15 cm⁻³ or less)

257/288 .Having insulated electrode (e.g., MOSFET, MOS diode)

257/368 ..Insulated gate field effect transistor in integrated circuit

257/369 ...Complementary insulated gate field effect transistors

257/373With pn junction to collect injected minority carriers to prevent parasitic bipolar transistor action

257/376With barrier region of reduced minority carrier lifetime (e.g., heavily doped P+ region to reduce electron minority carrier lifetime, or containing deep level impurity or crystal damage), or with region of high threshold voltage (e.g., heavily doped channel stop region)

2 257/E21.537 (0 OR, 2 XR)

Class 257 : ACTIVE SOLID-STATE DEVICES

257/E21.531 ...For electrical parameters, e.g., resistance, deep-levels, CV, diffusions by electrical means

(EPO)

257/E21.532 .Manufacture or treatment of devices consisting of plurality of solid-state components or on common substrate or of parts thereof; manufacture of integrated circuit devices or of parts thereof (EPO)

257/E21.536 ..Manufacture of specific parts of devices (EPO)

257/E21.537 ...Making of localized buried regions, e.g., buried collector layer, internal connection, substrate contacts (EPO)

2 257/E27.06 (0 OR, 2 XR)

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Class 257 : ACTIVE SOLID-STATE DEVICES
257/E27.006 . Including piezo-electric, electro-resistive,
or magneto-resistive component (EPO)
257/E27.009 . Including semiconductor component with at
least one potential barrier or surface barrier

adapted for

rectifying, oscillating, amplifying, or switching, or
Including integrated passive circuit elements (EPO)
257/E27.01 .. with semiconductor substrate only (EPO)
257/E27.046 ... Including only semiconductor components of a
single kind, e.g., all bipolar transistors, all diodes,

or

257/E27.059 Including field-effect component only (EPO)
257/E27.06 Field-effect transistor with insulated
gate (EPO)

2 257/E27.077 (0 OR, 2 XR)

Class 257 : ACTIVE SOLID-STATE DEVICES
257/E27.006 . Including piezo-electric, electro-resistive,
or magneto-resistive component (EPO)
257/E27.009 . Including semiconductor component with at
least one potential barrier or surface barrier

adapted for

rectifying, oscillating, amplifying, or switching,

or

257/E27.01 ... Including integrated passive circuit elements (EPO)
257/E27.07 ... Including a plurality of individual
components in a repetitive configuration (EPO)
257/E27.072 Including bipolar component (EPO)
257/E27.074 Including bipolar transistor (EPO)
257/E27.077 Static bipolar memory cell structure
(EPO)

2 257/E27.084 (0 OR, 2 XR)

Class 257 : ACTIVE SOLID-STATE DEVICES
257/E27.006 . Including piezo-electric, electro-resistive,
or magneto-resistive component (EPO)
257/E27.009 . Including semiconductor component with at
least one potential barrier or surface barrier

adapted for

rectifying, oscillating, amplifying, or switching, or
Including integrated passive circuit elements (EPO)

257/E27.01 .. with semiconductor substrate only (EPO)
257/E27.07 ... Including a plurality of individual
components in a repetitive configuration (EPO)
257/E27.081 Including field-effect component (EPO)
257/E27.084 Dynamic random access memory, DRAM,
structure (EPO)

2 257/E27.092 (0 OR, 2 XR)

Class 257 : ACTIVE SOLID-STATE DEVICES
257/E27.006 . Including piezo-electric, electro-resistive,
or magneto-resistive component (EPO)
257/E27.009 . Including semiconductor component with at
least one potential barrier or surface barrier

adapted for

rectifying, oscillating, amplifying, or switching,

or
Including integrated passive circuit elements (EPO)

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257/E27.01 ..With semiconductor substrate only (EPO)
257/E27.07 ...Including a plurality of individual
 components in a repetitive configuration (EPO)
257/E27.081Including field-effect component (EPO)
257/E27.084Dynamic random access memory, DRAM,
 structure (EPO)
257/E27.085One-transistor memory cell structure,
 i.e., each memory cell containing only one transistor
(EPO)

257/E27.092Capacitor in trench (EPO)

2 324/226 (0 OR, 2 XR)
Class 324 : ELECTRICITY: MEASURING AND TESTING
324/200 MAGNETIC
324/226 .Combined

2 324/239 (0 OR, 2 XR)
Class 324 : ELECTRICITY: MEASURING AND TESTING
324/200 MAGNETIC
324/228 .With means to create magnetic field to test
 material
324/239 ..Induced voltage-type sensor

2 324/240 (0 OR, 2 XR)
Class 324 : ELECTRICITY: MEASURING AND TESTING
324/200 MAGNETIC
324/228 .With means to create magnetic field to test
 material
324/239 ..Induced voltage-type sensor
324/240 ...Material flaw testing

2 324/333 (0 OR, 2 XR)
Class 324 : ELECTRICITY: MEASURING AND TESTING
324/323 OF GEOPHYSICAL SURFACE OR SUBSURFACE IN SITU
324/332 .With radiant energy or nonconductive-type
 transmitter
324/333 ..Within a borehole

2 324/334 (0 OR, 2 XR)
Class 324 : ELECTRICITY: MEASURING AND TESTING
324/323 OF GEOPHYSICAL SURFACE OR SUBSURFACE IN SITU
324/332 .With radiant energy or nonconductive-type
 transmitter
324/334 ..With separate pickup

2 324/336 (2 OR, 0 XR)
Class 324 : ELECTRICITY: MEASURING AND TESTING
324/323 OF GEOPHYSICAL SURFACE OR SUBSURFACE IN SITU
324/332 .With radiant energy or nonconductive-type
 transmitter
324/334 ..With separate pickup
324/336 ...To detect transient signals

2 324/345 (0 OR, 2 XR)
Class 324 : ELECTRICITY: MEASURING AND TESTING
324/323 OF GEOPHYSICAL SURFACE OR SUBSURFACE IN SITU
324/345 .By magnetic means

2 324/357 (1 OR, 1 XR)
Class 324 : ELECTRICITY: MEASURING AND TESTING
324/323 OF GEOPHYSICAL SURFACE OR SUBSURFACE IN SITU
324/347 .Using electrode arrays, circuits, structure,

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or supports

324/354 ..Coupled to artificial current source
 324/357 ...Including separate pickup of generated fields or potentials

2 324/693 (0 OR, 2 XR)

Class 324 : ELECTRICITY: MEASURING AND TESTING
 324/600 IMPEDANCE, ADMITTANCE OR OTHER QUANTITIES
 REPRESENTATIVE OF ELECTRICAL STIMULUS/RESPONSE
 RELATIONSHIPS

324/649 .Lumped type parameters
 324/691 ..Using resistance or conductance measurement

324/693 ...With object or substance characteristic determination using conductivity effects

2 324/715 (0 OR, 2 XR)

Class 324 : ELECTRICITY: MEASURING AND TESTING
 324/600 IMPEDANCE, ADMITTANCE OR OTHER QUANTITIES
 REPRESENTATIVE OF ELECTRICAL STIMULUS/RESPONSE
 RELATIONSHIPS

324/649 .Lumped type parameters
 324/691 ..Using resistance or conductance measurement

324/713 ...With voltage or current signal evaluation
 324/715Including a particular probing technique
 (e.g., four point probe)

2 324/718 (0 OR, 2 XR)

Class 324 : ELECTRICITY: MEASURING AND TESTING
 324/600 IMPEDANCE, ADMITTANCE OR OTHER QUANTITIES
 REPRESENTATIVE OF ELECTRICAL STIMULUS/RESPONSE
 RELATIONSHIPS

324/649 .Lumped type parameters
 324/691 ..Using resistance or conductance measurement

324/713 ...With voltage or current signal evaluation
 324/715Including a particular probing technique
 (e.g., four point probe)
 324/718To detect a flaw or defect

2 326/40 (1 OR, 1 XR)

Class 326 : ELECTRONIC DIGITAL LOGIC CIRCUITRY
 326/37 MULTIFUNCTIONAL OR PROGRAMMABLE (E.G.,
 UNIVERSAL, ETC.)

326/39 .Array (e.g., PLA, PAL, PLD, etc.)
 326/40 ..With flip-flop or sequential device

2 340/10.2 (2 OR, 0 XR)

Class 340 : COMMUNICATIONS: ELECTRICAL
 340/825 SELECTIVE
 340/10.1 .Interrogation response
 340/10.2 ..Contention avoidance

2 340/10.42 (0 OR, 2 XR)

Class 340 : COMMUNICATIONS: ELECTRICAL
 340/825 SELECTIVE
 340/10.1 .Interrogation response
 340/10.4 ..Response signal detail
 340/10.42 ...Identification only

2 340/541 (0 OR, 2 XR)

Class 340 : COMMUNICATIONS: ELECTRICAL

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- 340/500 CONDITION RESPONSIVE INDICATING SYSTEM
340/540 .Specific condition
340/541 ..Intrusion detection
- 2 340/853.3 (0 OR, 2 XR)
Class 340 : COMMUNICATIONS: ELECTRICAL
340/853.1 WELLBORE TELEMETRY OR CONTROL (E.G.,
SUBSURFACE TOOL GUIDANCE, DATA TRANSFER, ETC.)
340/853.3 .Selective control of subsurface equipment
- 2 340/928 (0 OR, 2 XR)
Class 340 : COMMUNICATIONS: ELECTRICAL
340/907 TRAFFIC CONTROL INDICATOR
340/928 .Combined (e.g., toll systems, one-way)
- 2 342/146 (0 OR, 2 XR)
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
AND DEVICES
342/118 DETERMINING DISTANCE
342/146 .Combined with determining direction
- 2 342/158 (0 OR, 2 XR)
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
AND DEVICES
342/147 DETERMINING DIRECTION
342/158 .Scanning
- 2 342/189 (0 OR, 2 XR)
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
AND DEVICES
342/175 WITH PARTICULAR CIRCUIT
342/189 .For correlation
- 2 342/192 (0 OR, 2 XR)
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
AND DEVICES
342/175 WITH PARTICULAR CIRCUIT
342/192 .Spectrum analysis
- 2 342/357.06 (1 OR, 1 XR)
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
AND DEVICES
342/350 DIRECTIVE
342/352 .Including a satellite
342/357.01 ..With position indicating
342/357.06 ...Using Global Positioning Satellite (GPS or
Glonass)
- 2 342/44 (0 OR, 2 XR)
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
AND DEVICES
342/42 RADAR TRANSPONDER SYSTEM
342/44 .Unique identity
- 2 348/250 (0 OR, 2 XR)
Class 348 : TELEVISION
348/207.99 CAMERA, SYSTEM AND DETAIL
348/222.1 .Combined image signal generator and general
image signal processing
348/241 ..Including noise or undesired signal reduction
348/250 ...In charge coupled type sensor

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- 2 348/251 (0 OR, 2 XR)
Class 348 : TELEVISION
348/207.99 CAMERA, SYSTEM AND DETAIL
348/222.1 .Combined image signal generator and general
image signal processing
348/241 ..Including noise or undesired signal reduction
348/251 ...Shading or black spot correction
- 2 348/313 (0 OR, 2 XR)
Class 348 : TELEVISION
348/207.99 CAMERA, SYSTEM AND DETAIL
348/294 .Solid-state image sensor
348/311 ..Charge-coupled architecture
348/313 ...With bias charge injection
- 2 360/77.01 (1 OR, 1 XR)
Class 360 : DYNAMIC MAGNETIC INFORMATION STORAGE OR
RETRIEVAL
360/69 AUTOMATIC CONTROL OF A RECORDER MECHANISM
360/75 .Controlling the head
360/77.01 ..Track centering
- 2 360/77.11 (0 OR, 2 XR)
Class 360 : DYNAMIC MAGNETIC INFORMATION STORAGE OR
RETRIEVAL
360/69 AUTOMATIC CONTROL OF A RECORDER MECHANISM
360/75 .Controlling the head
360/77.01 ..Track centering
360/77.02 ...Rotary carrier
360/77.07By tracking signal recorded on or
immediately beneath surface
360/77.11Continuous servo signal
- 2 361/118 (0 OR, 2 XR)
Class 361 : ELECTRICITY: ELECTRICAL SYSTEMS AND DEVICES
361/1 SAFETY AND PROTECTION OF SYSTEMS AND DEVICES
361/117 .High voltage dissipation (e.g., lightning
arrester)
361/118 ..Surge prevention (e.g., choke coil)
- 2 361/119 (0 OR, 2 XR)
Class 361 : ELECTRICITY: ELECTRICAL SYSTEMS AND DEVICES
361/1 SAFETY AND PROTECTION OF SYSTEMS AND DEVICES
361/117 .High voltage dissipation (e.g., lightning
arrester)
361/118 ..Surge prevention (e.g., choke coil)
361/119 ...In communication systems
- 2 361/42 (1 OR, 1 XR)
Class 361 : ELECTRICITY: ELECTRICAL SYSTEMS AND DEVICES
361/1 SAFETY AND PROTECTION OF SYSTEMS AND DEVICES
361/42 .Ground fault protection
- 2 365/201 (0 OR, 2 XR)
Class 365 : STATIC INFORMATION STORAGE AND RETRIEVAL
365/189.01 READ/WRITE CIRCUIT
365/201 .Testing
- 2 376/159 (2 OR, 0 XR)

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Class 376 : INDUCED NUCLEAR REACTIONS: PROCESSES,
SYSTEMS, AND ELEMENTS
376/156 NUCLEAR TRANSMUTATION (E.G., BY MEANS OF
PARTICLE OR WAVE ENERGY)
376/158 .By neutron bombardment
376/159 ..Neutron activation analysis

2 377/81 (0 OR, 2 XR)
Class 377 : ELECTRICAL PULSE COUNTERS, PULSE DIVIDERS, OR
SHIFT REGISTERS: CIRCUITS AND SYSTEMS
377/64 SHIFT REGISTER
377/77 .Particular transfer means
377/81 ..Logic circuit

2 382/312 (0 OR, 2 XR)
Class 382 : IMAGE ANALYSIS
382/312 IMAGE SENSING

2 424/139.1 (0 OR, 2 XR)
Class 424 : DRUG, BIO-AFFECTING AND BODY TREATING
COMPOSITIONS
424/130.1 IMMUNOGLOBULIN, ANTISERUM, ANTIBODY, OR
ANTIBODY FRAGMENT, EXCEPT CONJUGATE OR COMPLEX OF THE
SAME
424/139.1 WITH NONIMMUNOGLOBULIN MATERIAL
.Binds antigen or epitope whose amino acid
sequence is disclosed in whole or in part (e.g., binds
specifically-identified amino acid sequence, etc.)

2 424/143.1 (1 OR, 1 XR)
Class 424 : DRUG, BIO-AFFECTING AND BODY TREATING
COMPOSITIONS
424/130.1 IMMUNOGLOBULIN, ANTISERUM, ANTIBODY, OR
ANTIBODY FRAGMENT, EXCEPT CONJUGATE OR COMPLEX OF THE
SAME
424/141.1 WITH NONIMMUNOGLOBULIN MATERIAL
.Monoclonal antibody or fragment thereof (i.e.,
produced by any cloning technology)
424/143.1 ..Binds receptor

2 435/235.1 (0 OR, 2 XR)
Class 435 : CHEMISTRY: MOLECULAR BIOLOGY AND MICROBIOLOGY
435/235.1 VIRUS OR BACTERIOPHAGE, EXCEPT FOR VIRAL VECTOR
OR BACTERIOPHAGE VECTOR; COMPOSITION THEREOF; PREPARATION
OR PURIFICATION THEREOF; PRODUCTION OF VIRAL SUBUNITS;
MEDIA FOR PROPAGATING

2 435/253.3 (0 OR, 2 XR)
Class 435 : CHEMISTRY: MOLECULAR BIOLOGY AND MICROBIOLOGY
435/243 MICRO-ORGANISM, PER SE (E.G., PROTOZOA, ETC.);
COMPOSITIONS THEREOF; PROCESSES OF PROPAGATING,
MAINTAINING OR
PROCESS PRESERVING MICRO-ORGANISMS OR COMPOSITIONS THEREOF;
OF PREPARING OR ISOLATING A COMPOSITION CONTAINING A
MICRO-ORGANISM; CULTURE MEDIA THEREFOR
435/252.1 .Bacteria or actinomycetales; media therefor
435/253.3 ..Pseudomonas

2 435/254.11 (0 OR, 2 XR)
Class 435 : CHEMISTRY: MOLECULAR BIOLOGY AND MICROBIOLOGY

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435/243 MICRO-ORGANISM, PER SE (E.G., PROTOZOA, ETC.);
MAINTAINING OR COMPOSITIONS THEREOF; PROCES OF PROPAGATING,
PROCESS PRESERVING MICRO-ORGANISMS OR COMPOSITIONS THEREOF;
OF PREPARING OR ISOLATING A COMPOSITION CONTAINING A
MICRO-ORGANISM; CULTURE MEDIA THEREFOR

435/254.1 .Fungi
435/254.11 ..Transformants

2 435/331 (0 OR, 2 XR)
Class 435 : CHEMISTRY: MOLECULAR BIOLOGY AND MICROBIOLOGY

435/325 ANIMAL CELL, PER SE (E.G., CELL LINES, ETC.);
MAINTAINING OR COMPOSITION THEREOF; PROCESS OF PROPAGATING,
PROCESS PRESERVING AN ANIMAL CELL OR COMPOSITION THEREOF;
COMPOSITION OF ISOLATING OR SEPARATING AN ANIMAL CELL OR
AN THEREOF; PROCESS OF PREPARING A COMPOSITION CONTAINING
ANIMAL CELL; CULTURE MEDIA THEREFORE

435/326 .Animal cell, per se, expressing
immunoglobulin, antibody, or fragment thereof

435/331 ..Immunoglobulin or antibody binds a
specifically identified amino acid sequence

2 435/7.21 (0 OR, 2 XR)
Class 435 : CHEMISTRY: MOLECULAR BIOLOGY AND MICROBIOLOGY

435/4 MEASURING OR TESTING PROCESS INVOLVING ENZYMES
OR MICRO-ORGANISMS; COMPOSITION OR TEST STRIP
THEREFORE;

435/7.1 .Involving antigen-antibody binding, specific
binding protein assay or specific ligand-receptor
binding assay

435/7.2 ..Involving a micro-organism or cell membrane
bound antigen or cell membrane bound receptor or cell
membrane bound antibody or microbial lysate

435/7.21 ...Animal cell

2 435/7.92 (0 OR, 2 XR)
Class 435 : CHEMISTRY: MOLECULAR BIOLOGY AND MICROBIOLOGY

435/4 MEASURING OR TESTING PROCESS INVOLVING ENZYMES
OR MICRO-ORGANISMS; COMPOSITION OR TEST STRIP
THEREFORE;

435/7.1 .Involving antigen-antibody binding, specific
binding protein assay or specific ligand-receptor
binding assay

435/7.9 ..Assay in which an enzyme present is a label

435/7.92 ...Heterogeneous or solid phase assay system
(e.g., ELISA, etc.)

2 514/19 (2 OR, 0 XR)
Class 514 : DRUG, BIO-AFFECTING AND BODY TREATING

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COMPOSITIONS

514/1 DESIGNATED ORGANIC ACTIVE INGREDIENT CONTAINING
(DOAI)

514/2 .Peptide containing (e.g., protein, peptones,
fibrinogen, etc.) DOAI

514/19 ..2 peptide repeating units in known peptide
chain

2 514/230.5 (2 OR, 0 XR)
Class 514 : DRUG, BIO-AFFECTING AND BODY TREATING
COMPOSITIONS

514/1 DESIGNATED ORGANIC ACTIVE INGREDIENT CONTAINING
(DOAI)

514/183 .Heterocyclic carbon compounds containing a
hetero ring having chalcogen (i.e., O,S,Se or Te) or
nitrogen as the only ring hetero atoms DOAI

514/228.8 ..Hetero ring is six-membered and includes at
least nitrogen and oxygen as ring hetero atoms (e.g.,
monocyclic 1,2- and 1,3-oxazines, etc.)

514/229.5 ...Polycyclo ring system having the
six-membered hetero ring as one of the cyclos (e.g.,
maytansinoids, etc.)

514/230.5Bicyclo ring system having the six-membered
hetero ring as one of the cyclos (e.g., 1,4-benzoxazines,
etc.)

2 514/318 (0 OR, 2 XR)
Class 514 : DRUG, BIO-AFFECTING AND BODY TREATING
COMPOSITIONS

514/1 DESIGNATED ORGANIC ACTIVE INGREDIENT CONTAINING
(DOAI)

514/183 .Heterocyclic carbon compounds containing a
hetero ring having chalcogen (i.e., O,S,Se or Te) or
nitrogen as the only ring hetero atoms DOAI

514/277 ..Hetero ring is six-membered consisting of one
nitrogen and five carbon atoms

514/315 ...Piperidines

514/317Additional ring containing

514/318The additional ring is a six-membered
hetero ring consisting of one nitrogen and five carbon
atoms

2 514/334 (0 OR, 2 XR)
Class 514 : DRUG, BIO-AFFECTING AND BODY TREATING
COMPOSITIONS

514/1 DESIGNATED ORGANIC ACTIVE INGREDIENT CONTAINING
(DOAI)

514/183 .Heterocyclic carbon compounds containing a
hetero ring having chalcogen (i.e., O,S,Se or Te) or
nitrogen as the only ring hetero atoms DOAI

514/277 ..Hetero ring is six-membered consisting of one
nitrogen and five carbon atoms

514/332 ...Plural six-membered hetero rings consisting
of one nitrogen and five carbon atoms

514/334The six-membered hetero rings are bonded
directly to each other

2 514/473 (0 OR, 2 XR)
Class 514 : DRUG, BIO-AFFECTING AND BODY TREATING
COMPOSITIONS

514/1 DESIGNATED ORGANIC ACTIVE INGREDIENT CONTAINING
(DOAI)

514/183 .Heterocyclic carbon compounds containing a

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hetero ring having chalcogen (i.e., O,S,Se or Te) or
nitrogen as the only ring hetero atoms DOAI

514/449 ...Oxygen containing hetero ring
514/461 ...The hetero ring is five-membered
514/473 Chalcogen bonded directly to the hetero
 ring

2 525/209 (1 OR, 1 XR)
Class 525 : SYNTHETIC RESINS OR NATURAL RUBBERS -- PART
 OF THE CLASS 520 SERIES
525/50 .MIXING OF TWO OR MORE SOLID POLYMERS; MIXING
 OF SOLID POLYMER OR SICP WITH SICP OR SPFI; MIXING OF
SICP
A
OF THE
reactants
chemical
any
525/55 ABOVE OPERATIONS
 ..At least one solid polymer derived from
 ethylenic reactants only
525/191 Polymer mixture of two or more solid
 polymers derived from ethylenically unsaturated
 only; or mixtures of said polymer mixture with a
 treating agent; or products or processes of preparing
 of the above mixtures
525/209 Solid polymer derived from reactant
 containing elements other than C, H, O, N, ~S, or Cl

2 525/240 (1 OR, 1 XR)
Class 525 : SYNTHETIC RESINS OR NATURAL RUBBERS -- PART
 OF THE CLASS 520 SERIES
525/50 .MIXING OF TWO OR MORE SOLID POLYMERS; MIXING
 OF SOLID POLYMER OR SICP WITH SICP OR SPFI; MIXING OF
SICP
A
OF THE
reactants
chemical
any
525/55 ABOVE OPERATIONS
 ..At least one solid polymer derived from
 ethylenic reactants only
525/191 Polymer mixture of two or more solid
 polymers derived from ethylenically unsaturated
 only; or mixtures of said polymer mixture with a
 treating agent; or products or processes of preparing
 of the above mixtures
525/240 Solid polymer derived from ethylene or
 propylene

2 530/324 (1 OR, 1 XR)
Class 530 : CHEMISTRY: NATURAL RESINS OR DERIVATIVES;
 PEPTIDES OR PROTEINS; LIGNINS OR REACTION PRODUCTS
 THEREOF
530/300 PEPTIDES OF 3 TO 100 AMINO ACID RESIDUES
530/324 .25 or more amino acid residues in defined

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sequence

2 530/387.7 (0 OR, 2 XR)
Class 530 : CHEMISTRY: NATURAL RESINS OR DERIVATIVES;
PEPTIDES OR PROTEINS; LIGNINS OR REACTION PRODUCTS
THEREOF
530/350 PROTEINS, I.E., MORE THAN 100 AMINO ACID
RESIDUES
530/380 .Blood proteins or globulins, e.g.,
proteoglycans, platelet factor 4, thyroglobulin,
thyroxine,
etc.
530/386 ..Globulins
530/387.1 ...Immunoglobulin, antibody, or fragment
thereof, other than immunoglobulin antibody, or fragment
thereof that is conjugated or absorbed
530/387.7Binds expression product of cancer-related
gene or fragment thereof (e.g., oncogene, proto-oncogene,
etc.)

2 530/388.2 (0 OR, 2 XR)
Class 530 : CHEMISTRY: NATURAL RESINS OR DERIVATIVES;
PEPTIDES OR PROTEINS; LIGNINS OR REACTION PRODUCTS
THEREOF
530/350 PROTEINS, I.E., MORE THAN 100 AMINO ACID
RESIDUES
530/380 .Blood proteins or globulins, e.g.,
proteoglycans, platelet factor 4, thyroglobulin,
thyroxine,
etc.
530/386 ..Globulins
530/387.1 ...Immunoglobulin, antibody, or fragment
thereof, other than immunoglobulin antibody, or
fragment
thereof that is conjugated or absorbed
530/388.1Monoclonal
530/388.2Binds microorganism or normal or mutant
component or product thereof (e.g., animal cell,
cell-surface antigen, secretory product, etc.)

2 530/388.22 (0 OR, 2 XR)
Class 530 : CHEMISTRY: NATURAL RESINS OR DERIVATIVES;
PEPTIDES OR PROTEINS; LIGNINS OR REACTION PRODUCTS
THEREOF
530/350 PROTEINS, I.E., MORE THAN 100 AMINO ACID
RESIDUES
530/380 .Blood proteins or globulins, e.g.,
proteoglycans, platelet factor 4, thyroglobulin,
thyroxine,
etc.
530/386 ..Globulins
530/387.1 ...Immunoglobulin, antibody, or fragment
thereof, other than immunoglobulin antibody, or
fragment
thereof that is conjugated or absorbed
530/388.1Monoclonal
530/388.2Binds microorganism or normal or mutant
component or product thereof (e.g., animal cell,
cell-surface antigen, secretory product, etc.)
530/388.22Binds receptor (e.g., transferrin
receptor, Fc receptor, dihydropyridine receptor, IL-2
receptor, etc.)

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2 530/388.24 (0 OR, 2 XR)
 Class 530 : CHEMISTRY: NATURAL RESINS OR DERIVATIVES;
 PEPTIDES OR PROTEINS; LIGNINS OR REACTION PRODUCTS
 THEREOF
 530/350 PROTEINS, I.E., MORE THAN 100 AMINO ACID
 RESIDUES
 530/380 .Blood proteins or globulins, e.g.,
 proteoglycans, platelet factor 4, thyroglobulin,
 thyroxine,
 etc.
 530/386 ..Globulins
 530/387.1 ...Immunoglobulin, antibody, or fragment
 thereof, other than immunoglobulin antibody, or
 fragment
 thereof that is conjugated or absorbed
 530/388.1Monoclonal
 530/388.2Binds microorganism or normal or mutant
 component or product thereof (e.g., animal cell,
 cell-surface antigen, secretory product, etc.)
 530/388.24Binds hormone or other secreted growth
 regulatory factor, differentiation factor, intercellular
 mediator, or neurotransmitter (e.g., insulin, human
 chorionic gonadotropin, intragonadal regulatory protein,
 Mullerian inhibiting substance, inhibin, epidermal growth
 factor, nerve growth factor, dopamine, norepinephrine,
 etc.)

2 530/388.8 (0 OR, 2 XR)
 Class 530 : CHEMISTRY: NATURAL RESINS OR DERIVATIVES;
 PEPTIDES OR PROTEINS; LIGNINS OR REACTION PRODUCTS
 THEREOF
 530/350 PROTEINS, I.E., MORE THAN 100 AMINO ACID
 RESIDUES
 530/380 .Blood proteins or globulins, e.g.,
 proteoglycans, platelet factor 4, thyroglobulin,
 thyroxine,
 etc.
 530/386 ..Globulins
 530/387.1 ...Immunoglobulin, antibody, or fragment
 thereof, other than immunoglobulin antibody, or
 fragment
 thereof that is conjugated or absorbed
 530/388.1Monoclonal
 530/388.2Binds microorganism or normal or mutant
 component or product thereof (e.g., animal cell,
 cell-surface antigen, secretory product, etc.)
 530/388.8Binds cancer cell or component or product
 thereof (e.g., cell-surface antigen, etc.)

2 530/389.1 (0 OR, 2 XR)
 Class 530 : CHEMISTRY: NATURAL RESINS OR DERIVATIVES;
 PEPTIDES OR PROTEINS; LIGNINS OR REACTION PRODUCTS
 THEREOF
 530/350 PROTEINS, I.E., MORE THAN 100 AMINO ACID
 RESIDUES
 530/380 .Blood proteins or globulins, e.g.,
 proteoglycans, platelet factor 4, thyroglobulin,
 thyroxine,
 etc.
 530/386 ..Globulins
 530/387.1 ...Immunoglobulin, antibody, or fragment
 thereof, other than immunoglobulin antibody, or fragment
 thereof that is conjugated or absorbed

530/389.1 Polyclonal antibody or immunoglobulin of identified binding specificity

2 536/24.31 (0 OR, 2 XR)
 Class 536 : ORGANIC COMPOUNDS -- PART OF THE CLASS
 532-570 SERIES
 536/1.11 . Carbohydrates or derivatives
 536/18.7 .. Nitrogen containing
 536/22.1 ... N-glycosides, polymers thereof, metal derivatives (e.g., nucleic acids, oligonucleotides, etc.)
 etc.)
 536/23.1 DNA or RNA fragments or modified forms thereof (e.g., genes, etc.)
 536/24.3 Probes for detection of specific nucleotide sequences or primers for the synthesis of DNA
 or
 RNA
 536/24.31 Probes for detection of animal nucleotide sequences

2 544/120 (0 OR, 2 XR)
 Class 544 : ORGANIC COMPOUNDS -- PART OF THE CLASS
 532-570 SERIES
 544/1 .. Hetero ring is six-membered having two or more ring hetero atoms of which at least one is nitrogen
 (e.g., selenazines, etc.)
 544/63 ... Six-membered hetero ring consists of oxygen, nitrogen and carbon (e.g., 1,2-oxazines, etc)
 544/98 1,4-Oxazines
 544/106 Morpholines (i.e., fully hydrogenated 1,4-oxazines)
 544/111 Additional nitrogen containing hetero ring (e.g., thiazetidine, etc.)
 544/114 Diazine ring
 544/120 1,4-Diazine ring

2 544/91 (0 OR, 2 XR)
 Class 544 : ORGANIC COMPOUNDS -- PART OF THE CLASS
 532-570 SERIES
 544/1 .. Hetero ring is six-membered having two or more ring hetero atoms of which at least one is nitrogen
 (e.g., selenazines, etc.)
 544/63 ... Six-membered hetero ring consists of oxygen, nitrogen and carbon (e.g., 1,2-oxazines, etc)
 544/88 1,3-Oxazines
 544/89 Polycyclo ring system having the oxazine ring as one of the cyclos
 544/90 Bicyclo ring system having the oxazine ring as one of the cyclos
 544/91 Three or more ring hetero atoms in the bicyclo ring system

2 702/6 (1 OR, 1 XR)
 Class 702 : DATA PROCESSING: MEASURING, CALIBRATING, OR TESTING
 702/1 MEASUREMENT SYSTEM IN A SPECIFIC ENVIRONMENT
 702/2 . Earth science
 702/6 .. Well logging or borehole study

2 702/74 (0 OR, 2 XR)

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Class 702 : DATA PROCESSING: MEASURING, CALIBRATING, OR
TESTING
702/1 MEASUREMENT SYSTEM IN A SPECIFIC ENVIRONMENT
702/57 .Electrical signal parameter measurement system

702/66 ..Waveform analysis
702/71 ...Waveform-to-waveform comparison
702/74Signal-in-signal determination

2 703/27 (1 OR, 1 XR)
Class 703 : DATA PROCESSING: STRUCTURAL DESIGN,
MODELING, SIMULATION, AND EMULATION
703/23 EMULATION
703/27 .Compatibility emulation

2 707/104.1 (2 OR, 0 XR)
Class 707 : DATA PROCESSING: DATABASE AND FILE
MANAGEMENT OR DATA STRUCTURES
707/100 DATABASE SCHEMA OR DATA STRUCTURE
707/104.1 .Application of database or data structure
(e.g., distributed, multimedia, image)

2 707/203 (1 OR, 1 XR)
Class 707 : DATA PROCESSING: DATABASE AND FILE
MANAGEMENT OR DATA STRUCTURES
707/200 FILE OR DATABASE MAINTENANCE
707/201 .Coherency (e.g., same view to multiple users)

707/203 ..Version management

2 708/523 (0 OR, 2 XR)
Class 708 : ELECTRICAL COMPUTERS: ARITHMETIC PROCESSING
AND CALCULATING
708/100 ELECTRICAL DIGITAL CALCULATING COMPUTER
708/200 .Particular function performed
708/490 ..Arithmetical operation
708/523 ...Multiplication followed by addition (i.e.,
 $x*y+z$)

2 711/118 (0 OR, 2 XR)
Class 711 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING
SYSTEMS: MEMORY
711/100 STORAGE ACCESSING AND CONTROL
711/117 .Hierarchical memories
711/118 ..Caching

2 711/123 (0 OR, 2 XR)
Class 711 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING
SYSTEMS: MEMORY
711/100 STORAGE ACCESSING AND CONTROL
711/117 .Hierarchical memories
711/118 ..Caching
711/119 ...Multiple caches
711/123User data cache and instruction data cache

2 711/125 (2 OR, 0 XR)
Class 711 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING
SYSTEMS: MEMORY
711/100 STORAGE ACCESSING AND CONTROL
711/117 .Hierarchical memories
711/118 ..Caching
711/125 ...Instruction data cache

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- 2 711/151 (2 OR, 0 XR)
Class 711 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING
SYSTEMS: MEMORY
711/100 STORAGE ACCESSING AND CONTROL
711/147 .Shared memory area
711/151 ..Prioritized access regulation
- 2 711/154 (1 OR, 1 XR)
Class 711 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING
SYSTEMS: MEMORY
711/100 STORAGE ACCESSING AND CONTROL
711/154 .Control technique
- 2 711/204 (1 OR, 1 XR)
Class 711 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING
SYSTEMS: MEMORY
711/200 ADDRESS FORMATION
711/202 .Address mapping (e.g., conversion,
translation)
711/203 ..Virtual addressing
711/204 ...Predicting, look-ahead
- 2 711/208 (2 OR, 0 XR)
Class 711 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING
SYSTEMS: MEMORY
711/200 ADDRESS FORMATION
711/202 .Address mapping (e.g., conversion,
translation)
711/203 ..Virtual addressing
711/206 ...Translation tables (e.g., segment and page
table or map)
711/208Segment or page table descriptor
- 2 711/213 (0 OR, 2 XR)
Class 711 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING
SYSTEMS: MEMORY
711/200 ADDRESS FORMATION
711/213 .Generating prefetch, look-ahead, jump, or
predictive address
- 2 711/3 (1 OR, 1 XR)
Class 711 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING
SYSTEMS: MEMORY
711/1 ADDRESSING COMBINED WITH SPECIFIC MEMORY
CONFIGURATION OR SYSTEM
711/3 .Addressing cache memories
- 2 712/1 (0 OR, 2 XR)
Class 712 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING
SYSTEMS: PROCESSING ARCHITECTURES AND INSTRUCTION
PROCESSING
712/1 PROCESSING ARCHITECTURE
- 2 712/207 (2 OR, 0 XR)
Class 712 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING
SYSTEMS: PROCESSING ARCHITECTURES AND INSTRUCTION
PROCESSING
712/205 INSTRUCTION FETCHING
712/207 .Prefetching
- 2 712/210 (0 OR, 2 XR)
Class 712 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING

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SYSTEMS: PROCESSING ARCHITECTURES AND INSTRUCTION
PROCESSING

712/209 .Decoding instruction to accommodate plural
instruction interpretations (e.g., different dialects,
languages, emulation, etc.)

712/210 .Decoding instruction to accommodate variable
length instruction or operand

2 712/211 (0 OR, 2 XR)
Class 712 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING
SYSTEMS: PROCESSING ARCHITECTURES AND INSTRUCTION
PROCESSING

712/209 .Decoding instruction to accommodate plural
instruction interpretations (e.g., different dialects,
languages, emulation, etc.)

712/211 .Decoding instruction to generate an address of
a microroutine

2 712/212 (0 OR, 2 XR)
Class 712 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING
SYSTEMS: PROCESSING ARCHITECTURES AND INSTRUCTION
PROCESSING

712/209 .Decoding instruction to accommodate plural
instruction interpretations (e.g., different dialects,
languages, emulation, etc.)

712/212 .Decoding by plural parallel decoders

2 712/219 (1 OR, 1 XR)
Class 712 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING
SYSTEMS: PROCESSING ARCHITECTURES AND INSTRUCTION
PROCESSING

712/216 DYNAMIC INSTRUCTION DEPENDENCY CHECKING,
MONITORING OR CONFLICT RESOLUTION

712/219 .Reducing an impact of a stall or pipeline
bubble

2 712/229 (0 OR, 2 XR)
Class 712 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING
SYSTEMS: PROCESSING ARCHITECTURES AND INSTRUCTION
PROCESSING

712/220 PROCESSING CONTROL

712/229 .Mode switch or change

2 712/237 (0 OR, 2 XR)
Class 712 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING
SYSTEMS: PROCESSING ARCHITECTURES AND INSTRUCTION
PROCESSING

712/220 PROCESSING CONTROL

712/233 .Branching (e.g., delayed branch, loop control,
branch predict, interrupt)

712/234 ..Conditional branching

712/237 ...Prefetching a branch target (i.e., look
ahead)

2 712/238 (0 OR, 2 XR)
Class 712 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING
SYSTEMS: PROCESSING ARCHITECTURES AND INSTRUCTION
PROCESSING

712/220 PROCESSING CONTROL

712/233 .Branching (e.g., delayed branch, loop control,
branch predict, interrupt)

712/234 ..Conditional branching

712/237 ...Prefetching a branch target (i.e., look

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ahead)

712/238Branch target buffer

2 712/24 (1 OR, 1 XR)
 Class 712 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING
 SYSTEMS: PROCESSING ARCHITECTURES AND INSTRUCTION
 PROCESSING
 712/1
 712/24 PROCESSING ARCHITECTURE
 .Long instruction word

2 712/245 (1 OR, 1 XR)
 Class 712 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING
 SYSTEMS: PROCESSING ARCHITECTURES AND INSTRUCTION
 PROCESSING
 712/220
 712/245 PROCESSING CONTROL
 .Processing sequence control (i.e.,
 microsequencing)

2 712/4 (0 OR, 2 XR)
 Class 712 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING
 SYSTEMS: PROCESSING ARCHITECTURES AND INSTRUCTION
 PROCESSING
 712/1
 712/2
 712/4 PROCESSING ARCHITECTURE
 .Vector processor
 ..Distributing of vector data to vector
 registers

2 712/42 (0 OR, 2 XR)
 Class 712 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING
 SYSTEMS: PROCESSING ARCHITECTURES AND INSTRUCTION
 PROCESSING
 712/1
 712/32
 712/42 PROCESSING ARCHITECTURE
 .Microprocessor or multichip or multimodule
 processor having sequential program control
 ..Operation

2 712/43 (1 OR, 1 XR)
 Class 712 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING
 SYSTEMS: PROCESSING ARCHITECTURES AND INSTRUCTION
 PROCESSING
 712/1
 712/32
 712/42
 712/43 PROCESSING ARCHITECTURE
 .Microprocessor or multichip or multimodule
 processor having sequential program control
 ..Operation
 ...Mode switching

2 712/7 (0 OR, 2 XR)
 Class 712 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING
 SYSTEMS: PROCESSING ARCHITECTURES AND INSTRUCTION
 PROCESSING
 712/1
 712/2
 712/7 PROCESSING ARCHITECTURE
 .Vector processor
 ..Vector processor operation

2 712/8 (0 OR, 2 XR)
 Class 712 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING
 SYSTEMS: PROCESSING ARCHITECTURES AND INSTRUCTION
 PROCESSING
 712/1
 712/2
 712/7
 712/8 PROCESSING ARCHITECTURE
 .Vector processor
 ..Vector processor operation
 ...Sequential

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2 712/9 (0 OR, 2 XR)
Class 712 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING
SYSTEMS: PROCESSING ARCHITECTURES AND INSTRUCTION
PROCESSING
712/1 PROCESSING ARCHITECTURE
712/2 .Vector processor
712/7 ..Vector processor operation
712/9 ...Concurrent

2 715/505 (0 OR, 2 XR)
Class 715 : DATA PROCESSING: PRESENTATION PROCESSING OF
DOCUMENT
715/500 PRESENTATION PROCESSING OF DOCUMENT
715/505 .Form

2 715/529 (0 OR, 2 XR)
Class 715 : DATA PROCESSING: PRESENTATION PROCESSING OF
DOCUMENT
715/500 PRESENTATION PROCESSING OF DOCUMENT
715/526 .Display processing
715/529 ..Text attribute

2 715/531 (0 OR, 2 XR)
Class 715 : DATA PROCESSING: PRESENTATION PROCESSING OF
DOCUMENT
715/500 PRESENTATION PROCESSING OF DOCUMENT
715/530 .Edit, composition, or storage control
715/531 ..Text

2 715/539 (0 OR, 2 XR)
Class 715 : DATA PROCESSING: PRESENTATION PROCESSING OF
DOCUMENT
715/500 PRESENTATION PROCESSING OF DOCUMENT
715/530 .Edit, composition, or storage control
715/539 ..Block control

2 715/541 (0 OR, 2 XR)
Class 715 : DATA PROCESSING: PRESENTATION PROCESSING OF
DOCUMENT
715/500 PRESENTATION PROCESSING OF DOCUMENT
715/530 .Edit, composition, or storage control
715/541 ..Handwritten textual input

10769965_WDS.txt

above 1
aburied 2
accidently 1
accompanying 1
accordance 1
according 1
accordingly 1
acctlrary 1
accumcy 2
accuracy 3
accuracythan 1
accurate 1
acquisition 3
active 1
actors 1
adapted 2
additional 1
admitting 1
advantages 3
ae 1
aided 1
air 1
alert 1
aligned 2
aligning 3
alignm 1
alignment 1
aliring 1
all 3
along 1
also 1
amethod 1
an 37
analysis 1
and 68
ansmitted 1
antenna 6
anterma 1
anunwanted 1
aponostatic 1
appamtus 1
apparams 11
apparatus 7
apparent 1
appended 1
applic 1
applicat 1
application 2
applications 2
apply 1
appmttzs 1
appmtus 1
appnmtus 1
appoms 1
april 1
arapidly 1
are 8
arrangements 1
array 3
as 6
associated 4
asystem 1
at 28

10769965_WDS.txt

ata 1
ating 3
atleast 1
avoidance 1
ay 1
background 1
based 1
be 9
because 2
before 1
being 2
below 1
between 1
bijrted 1
bistatic 1
block 1
borizontally 1
both 1
bousing 1
bresking 1
broadly 1
broken 1
buded 1
building 9
buri 1
buried 47
by 15
ca 1
cable 1
calculating 4
calculator 10
call 8
can 5
canprovide 1
capable 5
carr 1
causing 4
ce 4
certainty 1
challenges 1
circuit 1
claim 23
claimed 1
claims 2
clairn 1
clearinghpuse 1
coaelations 1
code 6
colnmun 1
com 12
companies 6
companles 1
company 2
compris 2
comprises 12
comprising 25
computer 27
computerreadable 1
computerto 1
computing 4
con 2
conductive 2

10769965_WDS.txt

configuration 1
conhguration 1
conkol 1
comprising 1
cons 3
considefation 1
constitute 1
contacts 1
containing 10
continuous 1
contractors 1
conventional 3
correlati 2
correlations 8
corresp 1
corresponding 13
correspondlng 1
cost 3
costly 2
critically 1
criticallyrefracted 1
ct 1
ction 4
ctions 1
cture 1
cut 1
cycles 1
daia 1
dal 1
data 80
dataoradmitting 1
dataprocessedbythe 1
dataprocessor 1
dau 1
dc 14
degree 1
delays 1
delivered 1
depth 3
des 1
described 1
description 8
descrminator 3
designing 1
desir 1
detailed 3
detec 1
detecti 1
detecting 15
detection 1
detector 5
detectorto 1
determining 1
diagram 5
diapam 3
diaram 1
different 1
dilerent 1
directed 1
directing 1
direction 2
discernible 1
display 4

10769965_WDS.txt

displaying 4
distinguished 1
distnnce 1
dollars 1
drawings 2
dsmagej 1
easily 1
eers 1
effective 1
either 1
eived 1
elec 2
eleckomaretic 1
electromagnetic 1
element 2
elements 2
eliminating 2
embodied 1
embodiment 3
enables 2
eneely 1
engi 1
engineering 2
ensure 1
ent 1
entirety 2
entitled 1
environmental 1
equencyrange 1
erosion 1
even 1
every 1
ex 1
exact 1
example 3
excavating 1
excavation 1
excavators 1
except 1
execute 4
executed 2
expensive 3
explain 1
explanation 1
explanatory 1
extract 1
farab 1
fax 13
feater 2
featly 1
feature 2
features 1
fees 1
ff 1
fhe 1
fi 1
fiber 1
fig 16
figijres 1
filed 2
finnegan 6
flnnegan 1
fm 1

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fnegan 1
fof 1
following 1
follows 1
for 64
forbuilding 1
fordirecting 1
foregoing 1
foridentifying 2
forremediation 1
forth 1
found 3
fpr 1
frequency 1
frequently 1
from 10
function 1
further 21
furthercomprises 1
furtherker 1
garrett 1
general 2
generally 1
geomieis 1
geophyscial 1
geophysics 1
gequently 1
given 3
gom 3
gpk 1
gpr 49
graph 1
grolmd 1
grotmd 2
ground 9
gthod 1
guarantee 2
guration 1
hand 1
have 1
he 5
held 1
henderson 1
her 1
herein 1
hereof 1
hieve 1
higher 1
highway 1
hire 1
housing 7
however 1
hundreds 1
iata 1
ibree 1
ications 1
id 1
identif 2
identifiable 2
identifies 1
identify 2
identifying 19
identifyingbmied 1

10769965_WDS.txt

identiyng 1
ideptises 1
ij 1
ijnitbd 1
illuskates 1
illustrate 1
image 20
imlmlse 1
impact 1
important 1
impulse 5
imyge 1
in 58
inadequate 1
inches 1
includes 5
including 1
incorporated 3
index 2
indicator 2
induction 3
indusgal 1
industrial 1
industries 1
information 1
ing 1
ingastructure 1
ins 1
instlmce 1
instructions 3
intended 1
interest 2
interstate 1
into 1
invention 11
ioghz 1
iorresponding 1
is 27
it 6
itentails 1
its 2
ived 1
jej 1
jlsing 1
kaffc 1
kansmits 1
kansmitter 1
kansmitting 1
kk1 1
kkr 1
kkt 1
large 1
law 1
ldentif 1
le 1
least 26
lenrned 1
less 1
limitations 1
line 2
lines 4
link 1
ll 1

10769965_WDS.txt

lmknown 1
lml 1
ln 2
locating 12
location 5
locations 1
long 1
looking 1
loss 1
losses 1
lost 1
lt 2
lz 1
magnetometry 1
man 1
management 1
map 1
mapping 1
maps 1
maretometry 1
market 2
marktheir 1
may 4
mdhod 1
me 1
means 20
measmements 1
medium 2
meteorology 1
method 13
methodology 1
methods 4
millions 1
mobil 1
mobile 9
monostatic 5
more 6
most 1
mounted 4
moving 1
movrment 1
ms 1
multistatic 6
must 1
mw 1
mx 1
mxy 1
nationwide 1
nding 1
ne 8
near 1
need 1
needed 1
nerefore 1
ng 6
nnegan 3
no 3
non 1
ns 2
nt 1
ntifying 1
nw 14
obj 1

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object 47
objectives 1
objects 6
objectusing 2
objectwithin 1
obtained 1
od 1
of 103
offeredbygeophysical 1
often 2
oil 1
oin 1
om 21
omagnetic 1
omaretic 1
omthereceived 1
on 8
one 37
only 1
onstruction 1
operator 1
ophysical 1
optic 1
or 14
order 1
ordinance 1
ordnance 1
oren 3
orprivate 1
orrelations 1
ortable 1
other 3
ounner 1
out 1
overcome 1
oy 1
page 14
painstakingly 1
part 2
particularly 1
patent 4
pay 1
pene 7
penekating 3
penetrat 1
penetrating 7
penetratingradartgpr 1
perform 1
performing 1
permanent 1
pf 1
pfocessing 1
pipe 1
pipeline 1
plnnningand 1
pmicularlypointed 1
pn 1
poor 1
poose 1
portab 1
portable 2
potmd 2
pound 5

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powing 1
pr 1
practice 1
practicing 1
premium 1
preprocessor 1
present 3
price 1
priority 1
private 7
processed 5
processing 5
processor 27
processormounted 1
produce 1
product 6
projecting 1
projects 1
pronm 1
propam 3
provam 2
provide 2
provides 3
provisional 1
public 1
radar 18
radars 1
radr 2
range 2
ray 2
rayin 1
re 2
readable 11
realized 1
rec 1
received 24
receiver 2
receives 1
receiving 1
record 1
reduced 1
reference 2
referred 1
reflected 2
refracted 1
regactive 1
register 1
related 1
relates 1
relevant 1
reliable 2
rely 1
remediation 1
representing 1
require 1
respect 1
responding 1
response 2
result 1
results 1
revenue 2
rhis 1
rise 1

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risk 1
round 1
rss 1
safe 1
scan 1
schematic 7
seeing 1
sements 1
sensor 25
sent 1
september 1
series 1
serve 1
service 1
services 1
set 2
shington 1
short 1
shown 1
side 1
sije 2
simations 1
similar 1
simlypainted 1
single 1
siral 2
sirificantlyby 1
site 2
sites 1
slw 1
snegan 2
snv 1
so 2
sometimes 1
sought 1
spatial 12
specialtyservice 1
specifedre 1
specification 1
specified 1
speed 14
step 4
steps 1
stnlcture 1
stnzcmre 2
stoling 1
storing 1
str 2
street 9
stret 2
stretv 1
strucmre 2
structtlre 1
structul 1
structure 8
subject 1
substep 2
subsud 4
subsdace 1
such 1
such 2
sue 4
suffers 1

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suitable 2
swept 1
system 25
systems 5
targ 1
target 1
tbree 1
te 1
techniques 1
technology 3
teclmical 1
teclmologies 1
tecuiques 1
temporarily 1
th 2
than 3
that 8
the 180
their 3
theprinciples 1
therefore 1
these 2
they 2
thi 1
this 3
three 1
thus 1
ti 1
tility 1
time 10
timeiconsuming 1
timing 1
ting 3
tion 1
tl 1
tled 1
tmd 1
to 44
together 1
too 1
total 1
toward 1
toxic 1
transmitter 1
tt 1
turn 1
twentpfotlr 1
two 1
typicallyuse 1
ujing 1
under 1
unexploded 2
unit 2
unted 1
unwanted 1
upward 1
uried 1
use 3
used 2
uses 2
usgg 1
usin 1
using 19

10769965_WDS.txt

utilities 7
utility 12
value 1
variety 1
vehicle 2
very 1
view 1
wahington 1
washington 1
washington 11
waste 1
wave 15
waveform 1
wavelength 1
wben 1
wberein 1
we 1
well 1
wention 1
when 3
where 1
wherein 13
which 8
while 1
will 3
willing 1
wirten 1
with 14
within 1
work 1
written 1
ww 1
www 10
xemplary 1
xexxwaqfinnsvan 1
xk 1
year 1
yh 1
ze 1